ERRATUM

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HARRINGTON'S HAMILTONIAN IN THE STELLAR PROBLEM OF THREE BODIES; REDUCTIONS, RELATIVE EQUILIBRIA AND BIFURCATIONS

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We have to point out that the Appendix is due to Dr. A. Deprit, which is the sole author of it.

Moreover, in the paper there are some misprints:

Section 3.1,

In page 254, eleventh line, in Proposition 1 (part 3.1), it should read

$$S_{R_3}^2 = \{(\tilde{z}_1, \tilde{z}_2, \tilde{z}_3) \mid \tilde{z}_1^2 + \tilde{z}_2^2 + \tilde{z}_3^2 = \frac{1}{4}(p_2 + 1)^2\}$$

Section 4,

In page 256, there is a missing factor in the conditions verified by Poisson brackets of γ coordinates, given after Equation (31) before the first paragraph. The correct expressions are

$$\{\gamma_1; \gamma_2\} = 2\frac{\eta_1}{L_1}\gamma_3, \quad \{\gamma_2; \gamma_3\} = 2\frac{\eta_1}{L_1}\gamma_1, \quad \{\gamma_3; \gamma_1\} = 2\frac{\eta_1}{L_1}\gamma_2.$$

In second line of page 257, instead of 'according to (25)', it should read 'according to (31)'+.

Section 4.1,

There is a misprint in the reduced function P (p.257) which should read as:

$$P(\gamma_1, \gamma_2, \gamma_3) = (5 - 3\eta^2) \frac{3\alpha^2\beta^2 - (\alpha^2 + 4\alpha\beta + \beta^2)\eta^2 + 3\eta^4}{(\alpha - \beta)^2\eta^2} + 15 \frac{1 - \eta^2}{\eta^2} \frac{\alpha^2 - \eta^2}{\omega^2 - \eta^2} \frac{\gamma_1^2 - \gamma_2^2}{(\alpha - \beta)^2},$$

Equations of motion (32) should be changed by

$$\frac{d\gamma}{d\tau} = \{\gamma; P\} = 2\frac{\eta_1}{L_1} \nabla_\gamma P \times \gamma. \quad (32)$$

The corresponding equations (33) to (38) should read now multiplying their right hand members by the factor $2\eta_1/L_1$. This factor does not affect results in the rest of the paper.